CENTRALPNEUMATIC®

2” 18 GAUGE BRAD NAILER

Model 68021

SET UP AND OPERATING INSTRUCTIONS

REV 13i

Visit our website at: http://www.harborfreight.com

Read and understand tool labels and manual. Failure to follow warnings could result in DEATH or SERIOUS INJURY. SAVE THIS MANUAL.

Copyright© 2010 by Harbor Freight Tools®. All rights reserved. No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools. Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

For technical questions or replacement parts, please call 1-888-866-5797.

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠DANGER **DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.**

⚠WARNING **WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.**

⚠CAUTION **CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.**

NOTICE **NOTICE is used to address practices not related to personal injury.**

CAUTION **CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.**

Symbol Definitions

Symbol	Property or statement
PSI	Pounds per square inch of pressure
CFM	Cubic Feet per Minute flow
SCFM	Cubic Feet per Minute flow at standard conditions
NPT	National pipe thread, tapered
NPS	National pipe thread, straight
	WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved safety goggles with side shields.
	Warning marking concerning Risk of Puncture Injury. Wear heavy-duty work gloves.
	Read the manual before set-up and/or use.
	WARNING marking concerning Risk of Hearing Loss. Wear hearing protection.
	WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator.
	WARNING marking concerning Risk of Explosion.

Important Safety Instructions

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General

a. **To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.**

Work area

a. **Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.

b. **Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The tool is able to create sparks resulting in the ignition of the dust or fumes.

c. ***Keep bystanders, children, and visitors away while operating the tool.*** Distractions are able to result in the loss of control of the tool.

Personal safety

a. ***Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.*** A moment of inattention while operating the tool increases the risk of injury to persons.

b. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.

c. **Avoid unintentional starting. Be sure the trigger is released before connecting to the air supply.** Do not carry the tool with your finger on the trigger or connect the tool to the air supply with the trigger pressed.

d. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

e. **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear heavy-duty work gloves during use.

f. **Always wear eye protection.** Wear ANSI-approved safety goggles with side shields.

g. **Always wear hearing protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.

h. **Do not attach the hose or tool to your body.** Attach the hose to the structure to reduce the risk of loss of balance if the hose shifts.

i. **Always assume that the tool contains fasteners.** Do not point the tool toward yourself or anyone whether it contains fasteners or not.

j. **WARNING – Do not fire fastener on top of another fastener.** This is able to cause the fastener to be deflected and hit someone, or cause the tool to react and result in a risk of injury to persons.

k. **WARNING – Remove finger from the trigger when not driving fasteners.**

Never carry the tool with finger on trigger, the tool is able to fire a fastener.

Tool use and care

a. ***Use clamps or another practical way to secure and support the workpiece to a stable platform.*** Holding the work by hand or against the body is unstable and can lead to loss of control.

b. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.

c. **Do not use the tool if the trigger does not turn the tool on or off.** Any tool that cannot be controlled with the trigger is dangerous and must not be used until repaired.

d. **Disconnect the tool from the air source before making adjustments, doing tool maintenance, clearing jams, touching the safety nosepiece, leaving work area, loading, or unloading the tool.** Such precautionary measures reduce the risk of injury to persons.

e. ***Store the tool when it is idle out of reach of children and other untrained persons.*** A tool is dangerous in the hands of untrained users.

f. **Maintain the tool with care.** A properly maintained tool reduces the risk of binding and is easier to control.

g. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.

h. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

i. **Use only those fasteners listed in the Specifications chart of this manual.** Fasteners not identified for use with this tool by the tool manufacturer are able to result in a risk of injury to persons or tool damage when used in this tool.

Service

a. ***Tool service must be performed only by qualified repair personnel.***

b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**

c. **Use only the lubricants supplied with the tool or specified by the manufacturer.**

Air source

a. **Never connect to an air source that is capable of exceeding 200 PSI.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air-pressure range.

b. ***Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.*** Such gases are capable of explosion and serious injury to persons.

SAVE THESE INSTRUCTIONS.

Specific Safety Instructions

1. **Operators and others in work area MUST wear ANSI-approved safety goggles with side shields during use.** The employer is responsible to enforce the use of eye protection by the operator and others in the work area.
2. **Keep fingers away from trigger when not driving fasteners to avoid accidental firing.**
3. **Choice of triggering method is important. Check manual for triggering options.**
4. Always assume tool contains fasteners.
5. Do not point toward yourself or anyone whether it contains fasteners or not.
6. Do not actuate the tool unless the tool is placed firmly against the workpiece.
7. Respect the tool as a working implement.
8. No horseplay. This tool is not a toy and can be deadly if misused.
9. Do not load tool with fasteners when any one of operating controls, such as the Trigger or Safety Nosepiece, is activated.
10. Do not remove, tamper with, or otherwise cause the tool operating controls to become inoperable.
11. Do not operate if any portion of operating controls is inoperable, disconnected, altered, or not working properly.
12. Disconnect tool from air supply when:
    a. Unattended.
    b. Performing any maintenance or repair.
    c. Clearing a jam.
    d. Moving the tool to a new location.
13. Do not make any modifications to tool.
14. Refer to the tool maintenance instructions for detailed information on the proper maintenance of the tool.
15. Fire fasteners into an appropriate work surface only. Do not attempt to fire fasteners into surfaces too hard to penetrate. Do not drive fasteners on top of other fasteners, or at too steep of an angle. Fasteners can ricochet causing personal injury.
16. Do not fire fasteners too close to edge of a workpiece. They may split workpiece and fly free, causing personal injury.
17. Keep clear of the workpiece near area being fastened. Fasteners may bend sideways during firing, causing them to exit the workpiece at an unexpected point, causing personal injury.
18. Transport Tool safely. Always disconnect air supply when moving the tool. Carry the tool by the handle and avoid contact with the trigger.
19. Hold tool away from head and body. During operation the Tool may kick back causing injury.
20. Do not fire fasteners into a workpiece that has people, utility lines, or other objects behind or inside it.
21. Keep balance while using this tool. Keep area below clear if working in an elevated location, and secure air hose to prevent falls from bystanders accidentally pulling on it.
22. Obey the manual for the air compressor used to power this tool.

23. Install in-line shutoff valve to allow immediate control over air supply in an emergency, even if a hose is ruptured.

24. Do not engrave or stamp anything into the housing to avoid weakening it.

25. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
    • Lead from lead-based paints
    • Crystalline silica from bricks and cement or other masonry products
    • Arsenic and chromium from chemically treated lumber
    Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)
    WARNING: The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code § 25249.5, *et seq.*)

26. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by operator that common sense and caution are factors which cannot be built into this product, but must be supplied by operator.

Vibration Precautions

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Wear suitable gloves to reduce the vibration effects on the user.

4. Use tools with the lowest vibration when there is a choice between different processes.

5. Include vibration-free periods each day of work.

6. Grip tool as lightly as possible (while still keeping safe control of it). Let the tool do the work.

7. To reduce vibration, maintain tool as explained in this manual. If abnormal vibration occurs, stop immediately.

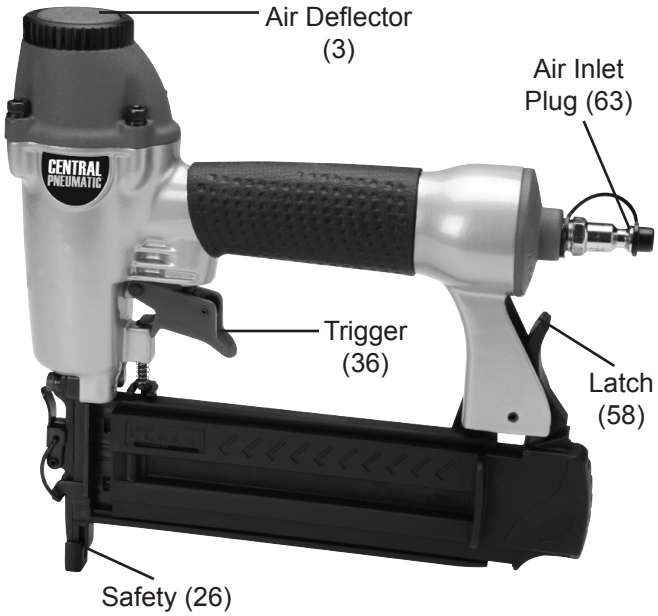
SAVE THESE INSTRUCTIONS.

Functional Description

Specifications

Operating Air Pressure	70-120 PSI
Max. Air Pressure	120 PSI
Air Consumption	.5 CFM @ 90 PSI
Air Inlet	1/4” -18 NPT
Fastener Capacity	5/8” to 2” 18 Gauge Brad Nails
Magazine Capacity	100 Fasteners
Safety Mechanism Type	Single Sequential

Components and Controls



Safety Nosepiece - Also called the workpiece contact, the Safety Nosepiece helps prevent the tool from firing unless it is pressed against an object.

INITIAL TOOL SET UP/ ASSEMBLY

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Unpacking

When unpacking, make sure that the item is intact and undamaged. If any parts are missing or broken, please call Harbor Freight Tools at 1-800-444-3353 as soon as possible.

- This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Air Supply

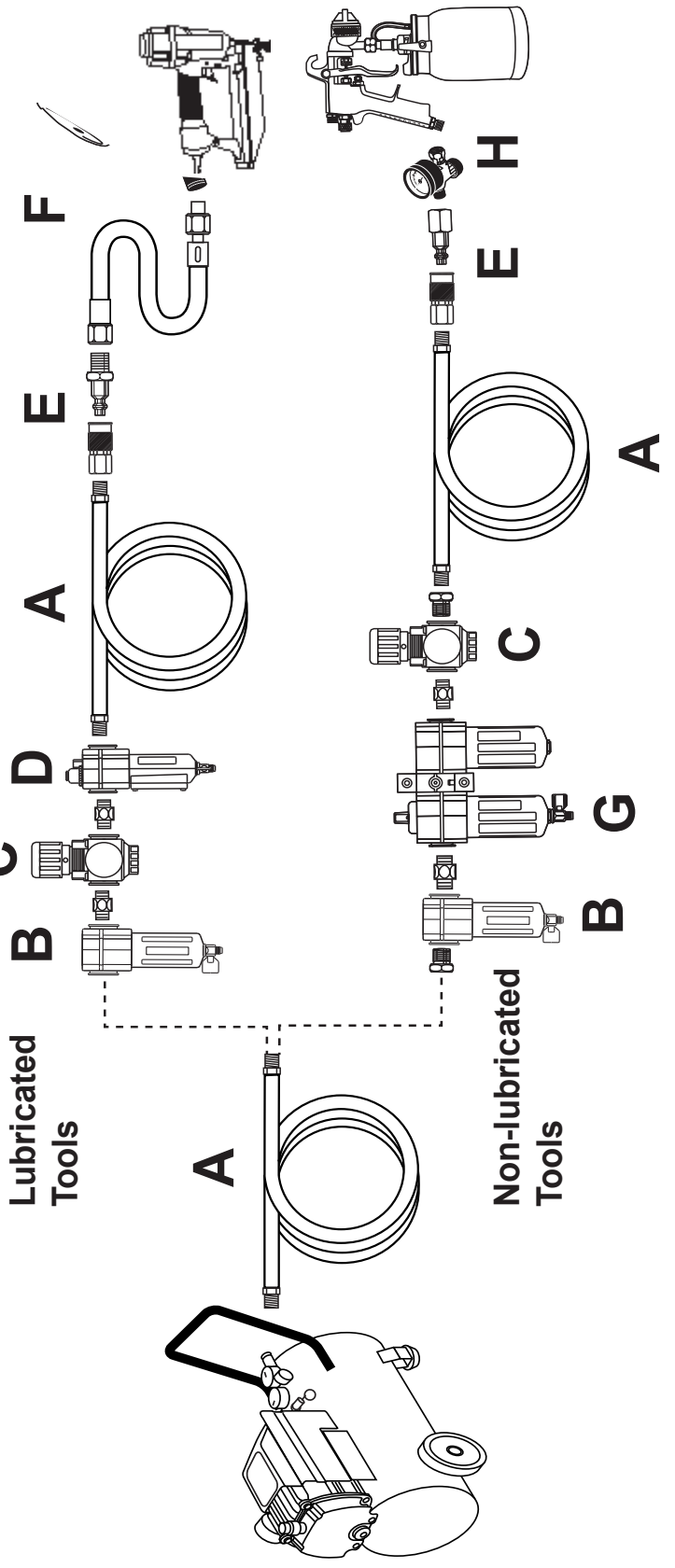
⚠WARNING TO PREVENT EXPLOSION:

Use only clean, dry, regulated, compressed air to power this tool. Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

1. Connect a regulator valve, an in-line shut off valve and 1/4” NPT air hose (all sold separately) to the Quick Coupler. Use thread tape for all threaded connections. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working. **An in-line shutoff ball valve is an important safety device because it controls the air supply even if the air hose is ruptured. The shutoff valve should be a ball valve because it can be closed quickly. See pages 8 and 9 for Air Tool Setup procedures.**

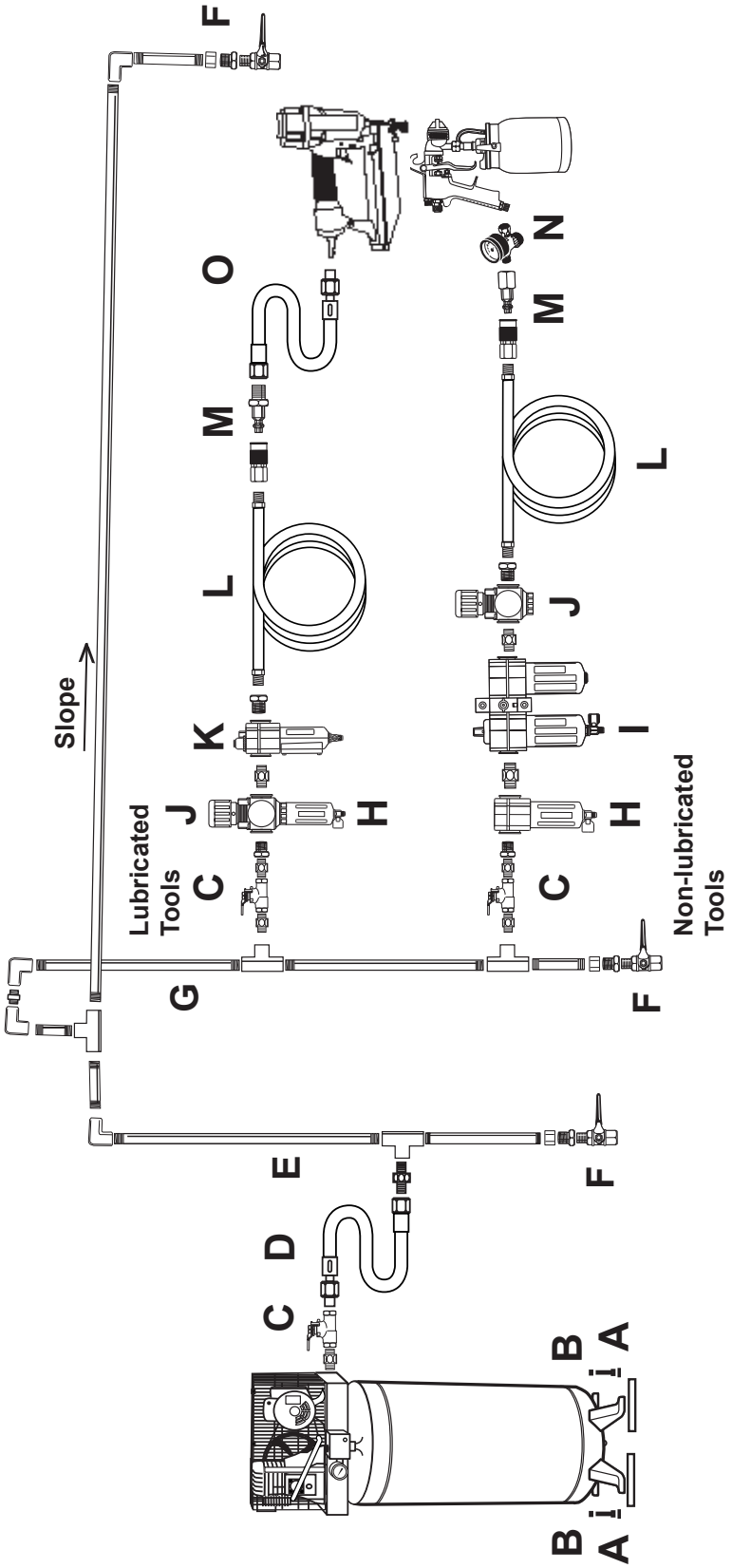
Note: If an automatic oiler system is not used, add a few drops of Pneumatic

Air Tool & Spray Gun Portable Setup



	Description	Function
A	Air Hose	Connects air to tool
B	Filter	Prevents dirt and condensation from damaging tool or work piece
C	Regulator	Adjusts air pressure to tool
D	Lubricator (optional)	For air tool lubrication
E	Coupler and Plug	Provides each connections
F	Leader Hose (optional)	Increases coupler life
G	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging work piece
H	Air Adjusting Valve (optional)	For fine tuning airflow at tool

Air Tool & Spray Gun Stationary Setup



	Description	Function
A	Vibration Pads	For noise and vibration reduction
B	Anchor Bolts	Secures air compressor in place
C	Ball Valve	Isolates sections of system for maintenance
D	Isolation Hose	For vibration reduction
E	Main Air Line - 3/4" minimum recommended	Distributes air to branch lines
F	Ball Valve	To drain moisture from system
G	Branch Air Line -1/2" minimum recommended	Brings air to point of use
H	Filter	Prevents dirt and condensation from damaging tool or work piece
I	Air Cleaner / Dryer (optional)	Prevents water vapor from damaging work piece
J	Regulator	Adjusts air pressure to tool
K	Lubricator	For air tool lubrication
L	Air Hose	Connects air to tool
M	Coupler and Plug	Provides each connections
N	Air Adjusting Valve	For fine tuning airflow at tool
O	Leader Hose	Increases coupler life

Tool Oil into the airline connection before operation. Add a few more drops after each hour of continual use.

2. Attach an air hose to the compressor's air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a coupler plug and quick coupler, will make operation more efficient, but are not required.

⚠**WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:**
Do not install a quick coupler on the tool. A coupler contains an air valve that will allow the air tool to retain pressure and operate accidentally after the air supply is disconnected.

Note: Air flow, and therefore tool performance, can be hindered by undersized air supply components.

3. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.

4. Release the tool's trigger and empty its magazine.

5. Close the in-line safety valve between the compressor and the tool.

6. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.

7. Adjust the air compressor's output regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool's maximum air pressure at any time. Adjust the pressure gradually, while checking the air output gauge to set the right pressure range.

8. The air pressure setting must not exceed job site regulations/restrictions. The air pressure setting must not exceed 120 PSI when being used with work pieces that have a thickness of less than 1-3/4".

9. Inspect the air connections for leaks. Repair any leaks found.

10. If the tool will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and release the trigger to prevent accidental operation.

Note: Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and unpowered.

Operating Instructions

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

Work Piece and Work Area Set Up

1. Designate a work area that is clean and well-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
3. Secure loose workpieces using a vise or clamps (not included) to prevent movement while working.
4. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.

Single Sequential Safety Trip Mechanism Definition

The single sequential safety trip mechanism is designed to prevent inadvertent firing. The tool should only fire if the Safety Nosepiece is pressed against the workpiece prior to pulling the Trigger. It should only fire again if the trigger is released and squeezed again. The Tool should not fire if the Safety Nosepiece is not pressed against an object.

Single Sequential Safety Trip Mechanism Testing Procedure

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Empty the tool before this procedure. Point the tool at a piece of scrap wood when testing.

1. Disconnect the tool from the air supply.
2. Empty the magazine of fasteners.
3. Check that the Trigger and the Safety Nosepiece move freely, without sticking.
4. Connect the air supply to the tool and set within the Operating Air Pressure indicated on the Specification chart.
5. Test the tool by pressing the Safety Nosepiece against the workpiece without pulling the Trigger.
   The tool must not cycle (fire).
   If it cycles (fires), stop immediately and have it repaired by a qualified service technician.
6. Hold the tool away, or off of the workpiece. The Safety Nosepiece should return to its original position. Squeeze the Trigger.
   The tool must not cycle (fire).
   If it cycles (fires), stop immediately and take the tool to a qualified service technician.
7. Press the Safety Nosepiece against the workpiece and squeeze the Trigger.
   The tool must cycle (fire) only once.
   Release the trigger, slide the nailer to a fresh piece of wood, and squeeze it again.

The tool must cycle (fire) again only once.
With the Trigger depressed, carefully lift the tool and press it against the workpiece again.
The tool must not cycle (fire).
If it fails to act in the manner explained in bold, have it repaired by a qualified service technician.

Loading the Tool

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION, BEFORE LOADING:

- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
- **Release the Trigger.**
- **Detach the air supply.**
- **Attempt to fire the Tool into a piece of scrap wood to ensure that it is incapable of firing any fasteners.**

1. Depress the Latch (58) and pull back the Sliding Magazine (52) completely.
2. Load the pointed end of the nail strip into the bottom of the Fixed Magazine (50), laying the the strip flat on the bed of Magazine.
3. Slide strip forward into Drive Guide (40).
4. Gently push the Sliding Magazine inward and push forward until the Latch snaps and locks securely. **WARNING! Do not pinch your hand.**
5. **NOTE**: The small window at the front of the Sliding Magazine indicates the amount of remaining fasteners, with the zero (“0”) marker indicating 15 pieces and 5-piece marker increments thereafter.

General Operating Instructions

1. Test the Tool, as directed in the prior section, before each use.
2. If automatic oiler is not used, add a few drops of Pneumatic Tool Oil to air intake of tool before use. Add a few drops more after each hour of continual use.

WARNING! TO PREVENT SERIOUS INJURY: Keep second hand away from tool discharge area, especially if holding workpiece. Tool applies extreme force to fastener, and fasteners may deflect or fire in an unexpected direction.

3. Attach the Nailer to the air supply at the Air Inlet Plug. Start your compressor and check the pressure, making sure it is set at the recommended 70-120 PSI.
4. To fire, place the nose of the Nailer on the workpiece. The Nailer should not fire if the Safety is not depressed. Once depressed, gently and briefly squeeze the Trigger once. **Do not fire repeatedly**; nails could bounce off of one another, damaging the work piece or causing PERSONAL INJURY.
5. If, at the maximum depth setting, the tool requires more force to accomplish the task, verify that the tool receives sufficient, unobstructed airflow (CFM) and pressure (PSI). **CAUTION! TO PREVENT TOOL AND ACCESSORY FAILURE, RESULTING IN INJURY: Do not exceed the tool’s maximum air pressure rating.** If the tool still does not have sufficient force at maximum pressure and sufficient airflow, a larger tool would then be required.
6. **After use, to prevent accidents:**
   a. **Release the Trigger.**
   b. **Detach the air supply.**

c. **Attempt to fire Tool into scrap wood to ensure it is incapable of firing.**

d. **Release the Trigger again.**

e. **Clean external surfaces with clean, dry cloth.**

f. **Store indoors out of children's reach.**

User-Maintenance Instructions

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION, BEFORE ANY MAINTENANCE OR REPAIRS ARE DONE (including clearing jams):

- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
- **Release the Trigger.**
- **Detach the air supply.**
- **Attempt to fire the Tool into a piece of scrap wood to ensure that it is incapable of firing any fasteners.**
- **Empty the Magazine and leave it open during service. The Magazine is spring-loaded and may cause parts or a fastener to fly out of the Tool.**

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE: Do not use damaged equipment. If abnormal noise, vibration, or leaking air is detected, have problem corrected before further use.

TO PREVENT EXPLOSION: Lubricate only with specified lubricants. Lubricate the air inlet using only pneumatic tool oil. Lubricate the internal mechanism using only white lithium grease. Other lubricants may damage the mechanism and may be highly flammable, causing an explosion.

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

Daily - Air Supply Maintenance:
Every day, perform maintenance on the air supply according to the component manufacturers' instructions. If equipped with, the lubricator's oil level needs to be maintained and the moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.

Clearing Jams

⚠WARNING **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION, BEFORE ANY MAINTENANCE OR REPAIRS ARE DONE (including clearing jams):**

- **Wear ANSI-approved safety goggles with side shields.** Other people in the work area must also wear ANSI-approved impact safety goggles with side shields.
- **Release the Trigger.**
- **Detach air supply.**
- **Attempt to fire the Tool into a piece of scrap wood to ensure that it is disconnected and is incapable of firing any fasteners.**
- **Empty the Magazine and leave it open during service. The Magazine is spring-loaded and may cause parts or a fastener to fly out of the Tool.**

1. If a fastener is jammed in the discharge area, remove it with pliers.
2. If a fastener is jammed in the Magazines, depress the Latch and pull back on the Sliding Magazine, pulling it out of Fixed Magazine.
3. Pull out the jammed fastener and the remainder of the fastener strip that is still in the magazine. Dispose of the remaining fastener strip; it may be bent or damaged in some other way.
4. If a fastener is jammed in the Drive Guide, pull on the Quick Release Lever (44) and disengage the Quick Release Spring (45).
5. Remove the jammed fastener; pliers maybe necessary to remove a stuck fastener.
6. Inspect the Drive Guide for any bends or breakage. If it is damaged, do not use the tool until it is repaired by a qualified technician.
7. Lightly oil the Drive Guide, engage the Quick Release Spring, and snap the Quick Release Lever back into place.
8. Make sure that the Safety Tip moves smoothly without biding.
9. Reload the Nailer and then reconnect it to the air supply.
10. Press the Safety of the Nailer against an appropriate piece of scrap wood.
11. Test fire the Nailer several times, checking for proper operation.
12. Disconnect the Nailer, remove the fasteners, and store in a location out of children's reach.
13. If you are unable to clear the fastener jam using the method prescribed above, the tool should be taken to a qualified service technician for proper servicing.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Insufficient fastener depth.	1. Not enough air pressure.	1. Check for loose connections and make sure that air supply is providing enough air pressure (PSI) to the tool's air inlet. **Do not exceed 110 PSI maximum air pressure.**
	2. Incorrect lubrication or not enough lubrication.	2. Lubricate using air tool oil and grease according to directions.
	3. Blocked air inlet screen (if equipped).	3. Clean air inlet screen of buildup.
	4. Mechanism contaminated.	4. Have qualified technician clean and lubricate mechanism. Install in-line filter in air supply as stated in Initial Set Up: Air Supply.
Fasteners drive too deeply.	1. Incorrect tool depth setting.	1. Adjust depth setting, if available.
	2. Too much air pressure.	2. Reduce air supply pressure (PSI).
Tool cycles without firing fastener.	1. Jammed fastener.	1. Clear jammed fastener according to Clearing Jams instructions.
	2. Tool empty.	2. Fill with correct fasteners.
	3. Incorrect fasteners used.	3. Empty, then fill with correct fasteners.
	4. Magazine dirty or not lubricated properly.	4. Clean and lubricate magazine and pusher.
	5. Insufficient air flow.	5. Check for loose connections and make sure that air supply is providing enough air flow (CFM) and pressure (PSI) to the tool's air inlet. **Do not exceed 120 PSI maximum air pressure.**
Frequent jamming.	1. Incorrect nail type.	1. Confirm nail diameter, type, length, angle, and collation type. Correct as needed.
	2. Bent or damaged safety components.	2. Have tool serviced by qualified service technician.
Severe air leakage. (Slight air leakage is normal, especially on older tools.)	1. Cross-threaded housing components.	1. Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before use.
	2. Loose housing.	2. Tighten housing assembly. If housing cannot tighten properly, internal parts may be misaligned.
	3. Damaged valve or housing.	3. Replace damaged components.
	4. Dirty, worn or damaged valve.	4. Clean or replace valve assembly.

Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description	Qty
1	Cap Screw (M5x.80x20mm)	6
2	Spring Gasket	6
3	Air Deflector	1
4	Cylinder Cap	1
5	Sealing Gasket	1
6	Air Deflector Plate	1
7	O-Ring	1
8	O-Ring	1
9	Head Valve Spring	1
10	Head Valve	1
11	O-Ring	1
12	O-Ring	1
13	O-Ring	1
14	Cylinder Cap Sealing Ring	1
15	Collar	1
16	O-Ring	1
17	Cylinder	1
18	O-Ring	1
19	O-Ring	1
20	Piston Assembly	1
21	Bumper	1
22	Housing	1
23	Sealing Washer	1
24	Safety Spring	1
25	Push Stem	1
26	Safety	1
27	Guide Sleeve	1
28	Cap Screw (M4x.70x8mm)	1
29	Rectangle Sealing Ring	1
30	Valve Seat	1
31	O-Ring	2
32	Valve Stem	1

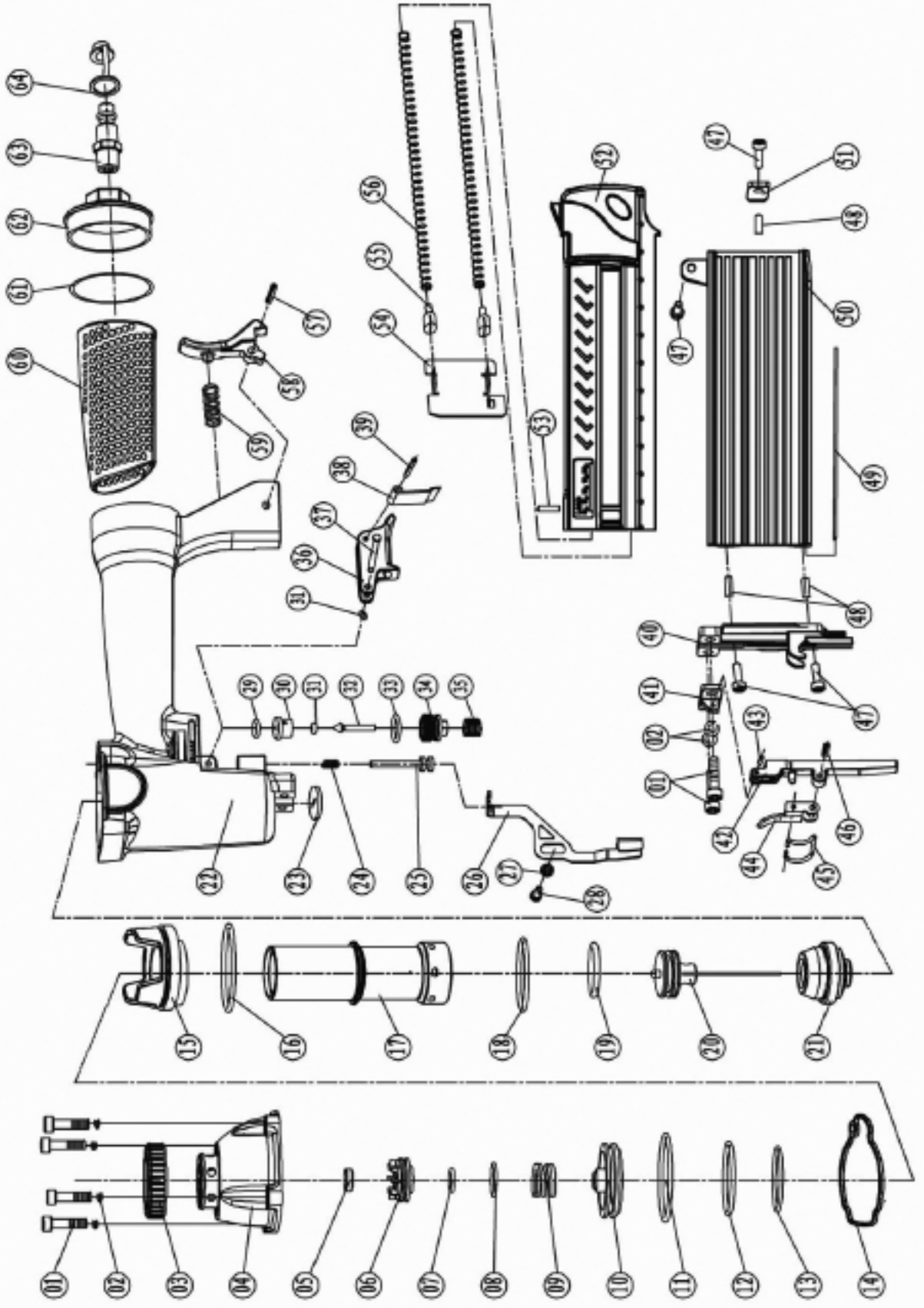
Part	Description	Qty
33	O-Ring	1
34	Valve Sleeve	1
35	Trigger Spring	1
36	Trigger	1
37	Position Pin	1
38	Safety Plate	1
39	Pin	1
40	Drive Guide	1
41	Fixed Cover	1
42	Movable Plate	1
43	Pin	1
44	Quick Release Lever	1
45	Quick Release Spring	1
46	Pin	1
47	Cap Screw (M4x.70x8mm)	4
48	Locking Sleeve	3
49	Insert Bar	1
50	Fixed Magazine	1
51	Position Plate	1
52	Sliding Magazine	1
53	Pin	1
54	Pusher	1
55	Pusher Stem	2
56	Pusher Spring	2
57	Pin	1
58	Latch	1
59	Latch Spring	1
60	Rubber	1
61	O-Ring	1
62	End Cap	1
63	AIr Inlet Plug	1
64	Air Inlet Plug Cover	1

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Assembly Diagram



Limited 1-Year Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase (90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

CENTRALPNEUMATIC®

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • (800) 444-3353